

SETRAC 13<sup>TH</sup> ANNUAL HEALTHCARE PREPAREDNESS SYMPOSIUM

GALVESTON, TX | NOVEMBER 3, 2022

#UTHealth Houston

tephi.texas.gov



# **Objectives**

- Explain TEPHI's goals
- Recall TEPHI's strategic areas
- Describe, from your perspective, pain points, training gaps, other needs

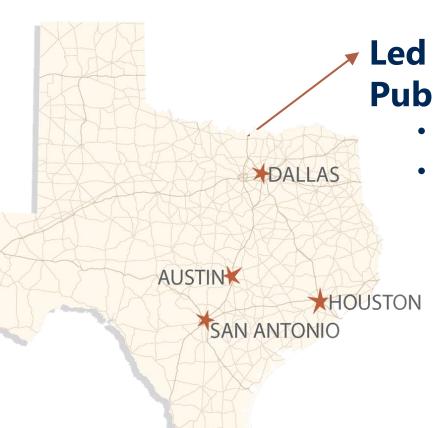


# THE UT HEALTH SCIENCE CENTER AT HOUSTON (UTHEALTH HOUSTON)

EL PASO

#### **Located within UTHealth**

- Cizik School of Nursing
- McGovern Medical School
- MD Anderson UTHealth Graduate School of Biomedical Sciences
- School of Dentistry
- School of Biomedical Informatics
- School of Public Health



BROWNSVILLE

Led by the School of Public Health

- 4<sup>th</sup> largest in the nation
- Campus system facilitates collaborations with local stakeholders

## **Benefits of Academic Affiliation**



**Access scientific & medical** expertise throughout our academic & research enterprise Robust public health capabilities of the UTHealth **Houston SPH** Leverage institutional resources

## **TEPHI's Goals**



- Prepare Texas for public health threats related to infectious diseases
- Keep Texans healthy by developing and delivering tools and training
- Maintain a strong Texas economy

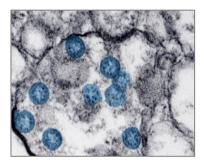
## **Collaborations Are Critical**

- Governmental agencies at all levels
- Regional and state-wide organizations
- Professional associations
- Business entities
- Academic institutions
- Community organizations
- Faith-based organizations

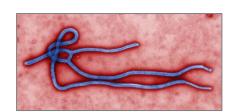
## **Infectious Diseases**

**TEXAS EPIDEMIC PUBLIC HEALTH INSTITUTE** 

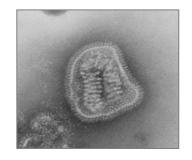
- Constant & costly
- Let's consider recent outbreaks



SARS-CoV-2

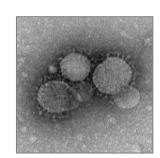


Ebola



Influenza

https://sites.duke.edu/superbugs/module-5/avian-flu-pandemic-of-tomorrow/biology-of-the-influenza-virus/



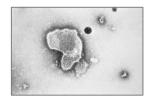
**MERS** 



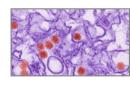
E. coli



Cyclospora



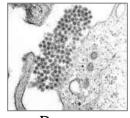
RSV



Zika



West Nile



Dengue

# **Strategic Areas**



Training & Resources

Readiness

Communications







Collaborations:

State, local, federal agencies | Professional Associations | Businesses Academic Institutions | Community Organizations | Faith-based Organizations

## TRAINING & RESOURCES

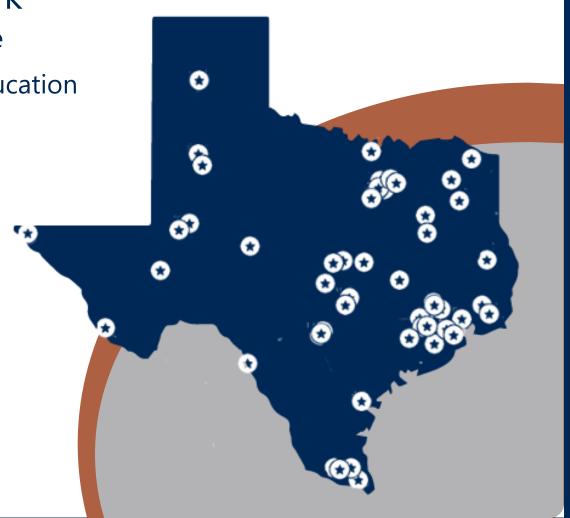


#### Statewide Public Health Reserve Network

- Certificate in Pandemic Preparedness & Response
- Targeted Trainings & Continuing Professional Education

### Additional Educational Opportunities

- Grand Rounds
- TEPHI Talks
- Texas Public Health Summit
- Technical Assistance



## Readiness

- Early Detection:
  Wastewater, Air, Syndromic
- Data Analysis & Visualization
- Vulnerable Populations
- Business Operations Resiliency
- Food Supply Chain Preparedness
- Rural Healthcare Systems
- Scientific & PH Collaborations
  - Rapid Assessment
  - Laboratory Network



A. Miller, MD, MPH visits SPH students to discuss public health during disasters



SPH hosts CDC EIS Officers Houston, TX | March 2017















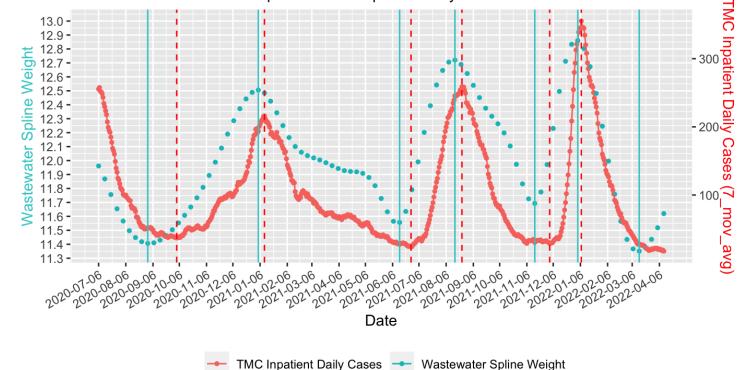
Training & vaccine clinic for dairy workers Friona and Muleshoe, TX | March 31, 2021

## Wastewater Monitoring



- Targeted virus detection
   Influenza A & B, RSV, Enterovirus, Norovirus, Monkeypox, Polio, WNV, Coronavirus variants, HIV, Zika, Dengue
- Agnostic virus detection
- Piloting: Houston & El Paso
- Expanding: Lubbock & additional areas of the state

TMC Inpatient Daily Cases Versus CoH Wastewater Spline Verticle Blue Lines Represent Wastewater\_Spline reach Local Min/Max While Red Dashed Lines Represent TMC Inpatient Daily NewCases







## **Communications**

- Community Outreach Resources
- Health Literacy
- Data Visualization
- Relationship Building



Texas Public Health Summit Houston, TX | July 2022







**TEXAS EPIDEMIC PUBLIC HEALTH INSTITUTE** 

Texas Healthier Summit Austin, TX | October 2022 AND In the Exhibit Hall today

# Questions for me?

Training & Resources

Readiness

Communications







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# Questions for you

- 1. Consider the gaps or the pain points in your recent experience. How can you see TEPHI helping to fill those gaps or ease the pain points?
- 2. What skills or knowledge do you wish you or your team had heading into to the COVID pandemic?
- 3. What do you see as the most essential needs for successful infectious disease preparedness and response in the future?

## Connect with Us

Janelle Rios, PhD, MPH

Interim Deputy Director Janelle.Rios@uth.tmc.edu

TEPHI.Texas.gov

info@tephi.Texas.gov

3 866-89-TEPHI



Texas Public Health Summit Houston, TX | July 2022











